## PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

11-Jun-2010

**Company:** 111004

Room Area ID: Reference #:



 Sales Order #:
 C002682

 CCC Panel #:
 P67443

 Date In:
 20-May-2010

 Date Out:
 03-Jun-2010

Days In Service: 14

**CCC Panel # P67443** 

ISA Class G2
Moderate

Copper Corrosion 301 Å/30 Days

Silver Corrosion 220 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P67443

The electrolytic reduction analysis on Corrosion Classification Coupon #P67443 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

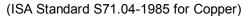
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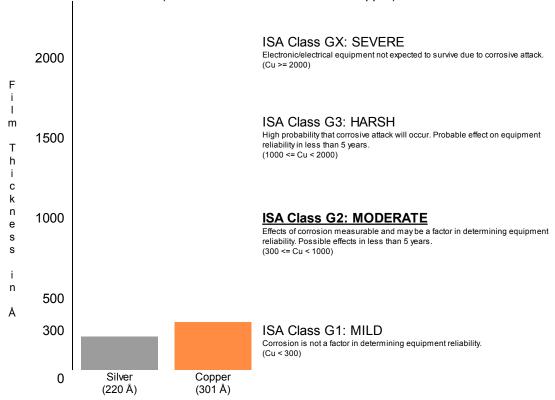
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## PURAFIL CCC # P67443 Analysis Results

Corrosion Film Composition				Gold Coupon -
	30 Days	rojections <u>1 Year</u>	<u>5 Year</u>	Magnified 20x
Copper Films Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	70 Å	93 Å	122 Å	
Unknowns	231 Å	308 Å	403 Å	
Totals	301 Å	401 Å	525 Å	
Silver Films	24 Å	270 Å	1902 Å	
AgCl	31 Å	379 Å	1893 Å	
Ag <sub>2</sub> S	120 Å	1464 Å	7321 Å	
Unknowns	69 Å	840 Å	4201 Å	
Totals	220 Å	2683 Å	13415 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

## **Equipment Reliability Correlation**





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